



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Labrador & Fundora Corporation dba V & V Windows  
2355 W 4th Ave  
Hialeah, FL 33010-1454

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "450" Aluminum Fixed Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. W14-29, titled "Series-450 Aluminum Fixed Wdw (L.M.I.)", sheets 1 through 6 of 6, dated 08/20/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



UP  
12/17/14

NOA No. 14-0909.16  
Expiration Date: December 24, 2019  
Approval Date: December 24, 2014  
Page 1

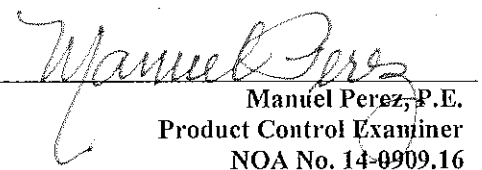
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W14-29**, titled "Series-450" Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 08/20/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
along with marked-up drawings and installation diagram of mulled aluminum fixed and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5009**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of mulled aluminum fixed and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5010**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5011**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5012**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 14-0909.16

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**B. TESTS (CONTINUED)**

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5013**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
6. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5014**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5015**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
8. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an aluminum operable casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5016**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
9. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5017**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
10. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5018**, dated 06/11/14, signed and sealed by Rafael E. Droz-Seda, P.E.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 14-0909.16

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**B. TESTS (CONTINUED)**

11. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum operable casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5019**, dated 04/23/14, signed and sealed by Rafael E. Droz- Seda, P.E.
12. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5052**, dated 10/21/14, signed and sealed by Rafael E. Droz- Seda, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated 08/13/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. **Glazing complies with ASTM E1300-09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.
2. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

**F. STATEMENTS**

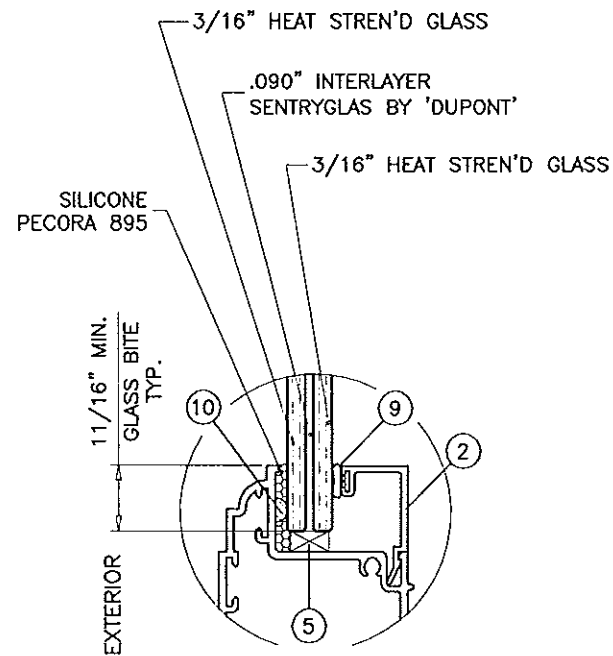
1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, and of no financial interest, dated August 13, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Proposal issued by the Product Control Section, dated August 27, 2013, signed by Jaime D. Gascon, P.E., Product Control Supervisor.

**G. OTHERS**

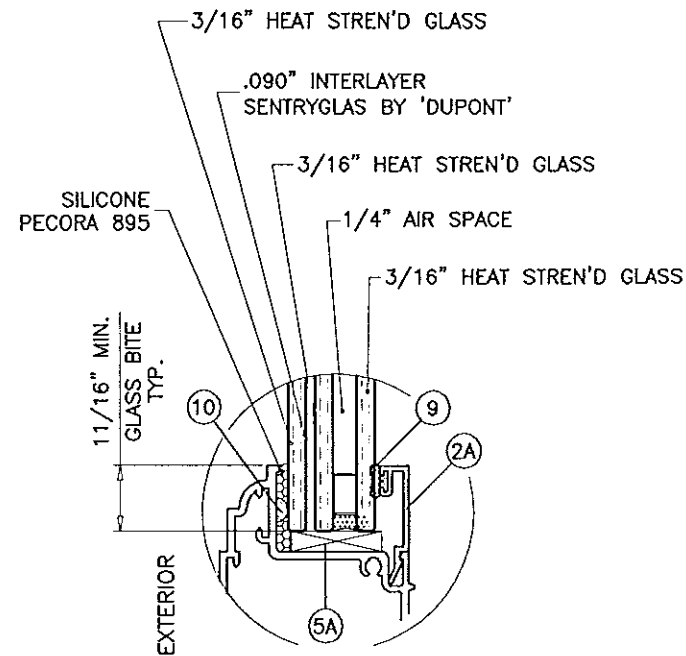
1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 14-0909.16  
Expiration Date: December 24, 2019  
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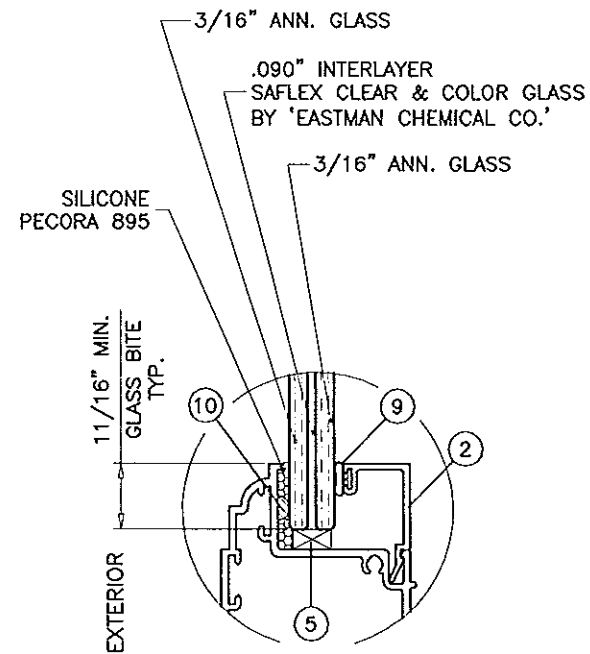




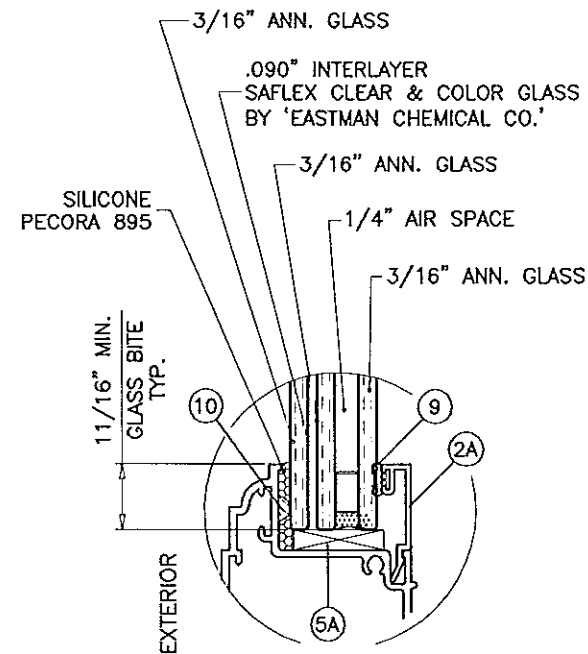
GLASS TYPE 'G1L'  
7/16" OVERALL NOM.



GLASS TYPE 'G1I'  
1" OVERALL NOM.



GLASS TYPE 'G2L'  
7/16" OVERALL NOM.



GLASS TYPE 'G2I'  
1" OVERALL NOM.

# GLAZING OPTIONS

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

AUG 26 2014

Approved as complying with the  
Florida Building Code  
Date: Dec 24 2014  
NOA# 14-0959.16  
Miami Dade Product Control

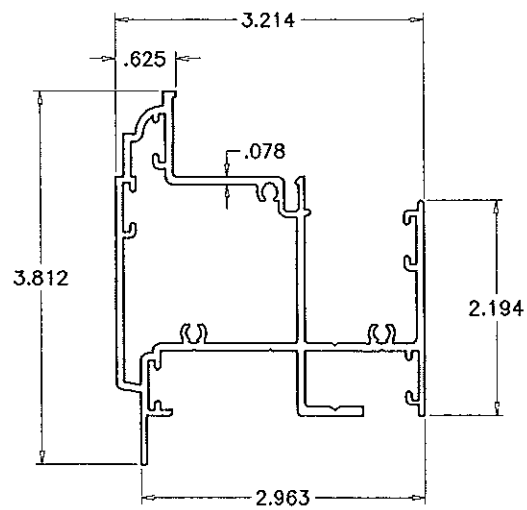
By: *Manuel Perez*

<b>af c</b> <b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\W14-29W	
SERIES-450 ALUMINUM FIXED WDW. (L.M.I.) Labrador & Fundora Corp. dba-V & V Windows 2355 West 4th Ave. Hialeah, FL 33010 TEL. (305) 888-4151 FAX. (305) 888-1042	
revisions: no. date by description	date: 08-20-14 scale: 1/2" = 1" dr. by: HAMID chk. by:
drawing no. <b>W14-29</b> sheet 2 of 6	

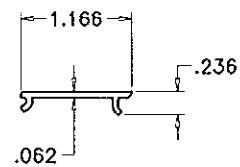




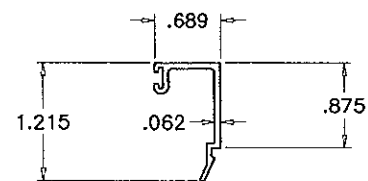




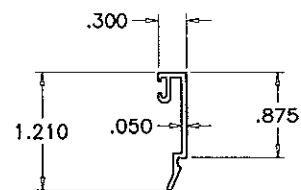
① FIXED FRAME HEAD/SILL/JAMB



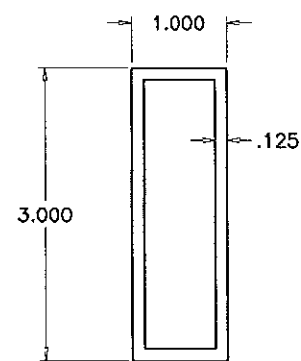
④ FRAME COVER



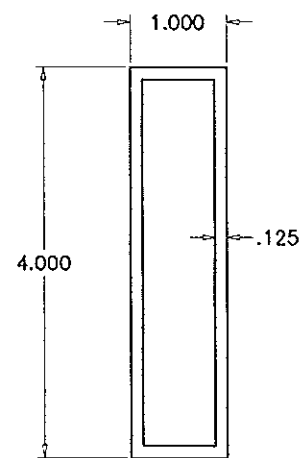
② GLAZING BEAD (LAM. GLASS)



2A GLAZING BEAD (INSUL. LAM. GLASS)



⑪ TUBE MULLION



⑪A TUBE MULLION

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	V403	4/ WDW.	FRAME HEAD/SILL/JAMB	6063-T6	-
2	V405	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T5	-
2A	V406	4/ WDW.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
4	V404	AS REQD.	FRAME COVER	6063-T6	-
5	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 75±5 SHORE A
5A	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 75±5 SHORE A
6	PJ540-SS	AS REQD.	CORNER KEY	ST. STEEL	SULLIVAN & ASSOC.
7	#10 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	CRS	PH SMS
9	9146	AS REQD.	GLAZING GASKET	VINYL	CENTRAL PLASTICS, DUROMETER 65±5 SHORE A
10	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE, DUROMETER 65±5 SHORE A
11	-	AS REQD.	1X3 TUBE MULLION	6063-T6	-
11A	-	AS REQD.	1X4 TUBE MULLION	6063-T6	-

# SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH 'PECORA 1215' SEAM SEALER.

PARIMETER CAULKING 'DYMONIC FC POLYURETHANE' ON EXTERIOR ONLY.

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

AUG 26 2014

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Florida Building Code  
Date Dec 24 2014  
NOAH 14-0909-16  
Miami Dade Product Control

By Manuel Perez

**afC**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W14-29V

SERIES-450 ALUMINUM FIXED WDW. (L.M.I.)  
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revisions:	no	date	by	description

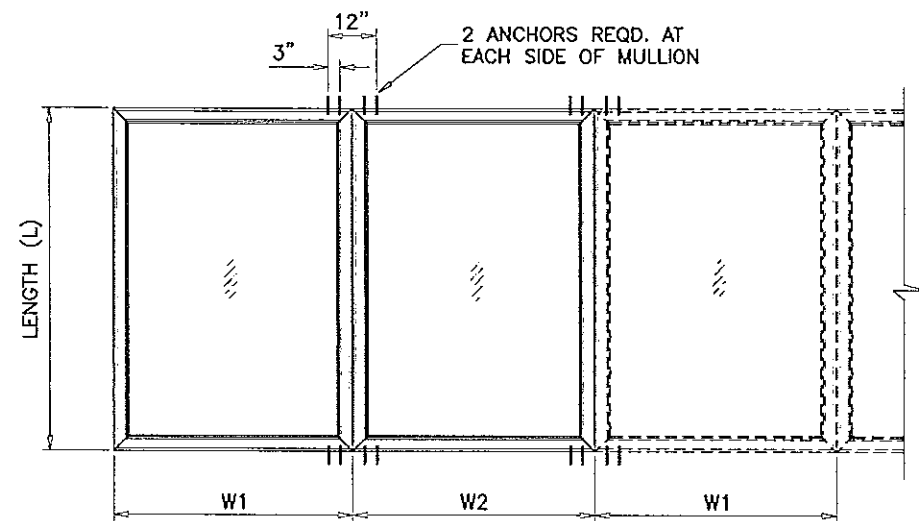
date: 08-20-14  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W14-29**  
sheet 5 of 6

MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		MULLION TYPE '1'		MULLION TYPE '2'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(+)	EXT.(+)	INT.(+)
19-1/8"	74-1/4"	85.0	85.0	85.0	85.0
26-1/2"		85.0	85.0	85.0	85.0
37"		85.0	85.0	85.0	85.0
53-1/8"		85.0	85.0	85.0	85.0
60"		85.0	85.0	85.0	85.0
19-1/8"	80"	85.0	85.0	85.0	85.0
26-1/2"		85.0	85.0	85.0	85.0
37"		85.0	85.0	85.0	85.0
53-1/8"		85.0	85.0	85.0	85.0
60"		82.0	82.0	85.0	85.0
19-1/8"	84"	85.0	85.0	85.0	85.0
26-1/2"		85.0	85.0	85.0	85.0
37"		85.0	85.0	85.0	85.0
53-1/8"		74.4	74.4	85.0	85.0
60"		69.2	69.2	85.0	85.0
18"	78"	85.0	85.0	85.0	85.0
24"		85.0	85.0	85.0	85.0
30"		85.0	85.0	85.0	85.0
36"		85.0	85.0	85.0	85.0
42"		85.0	85.0	85.0	85.0
48"		85.0	85.0	85.0	85.0
54"		85.0	85.0	85.0	85.0
60"		85.0	85.0	85.0	85.0
18"	84"	85.0	85.0	85.0	85.0
24"		85.0	85.0	85.0	85.0
30"		85.0	85.0	85.0	85.0
36"		85.0	85.0	85.0	85.0
42"		85.0	85.0	85.0	85.0
48"		79.7	79.7	85.0	85.0
54"		73.6	73.6	85.0	85.0
60"		69.2	69.2	85.0	85.0

# NOTES:

- USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
- FOR FIXED WINDOW CAPACITY SEE SHEET 1.
- LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

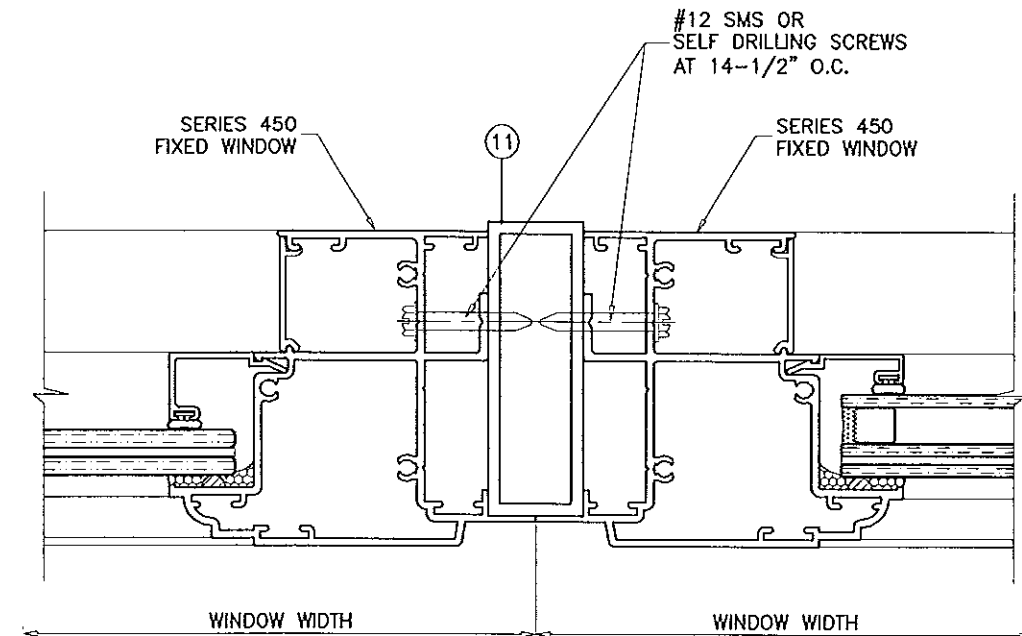


# TYPICAL ELEVATIONS

SIDE BY SIDE WINDOWS

SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

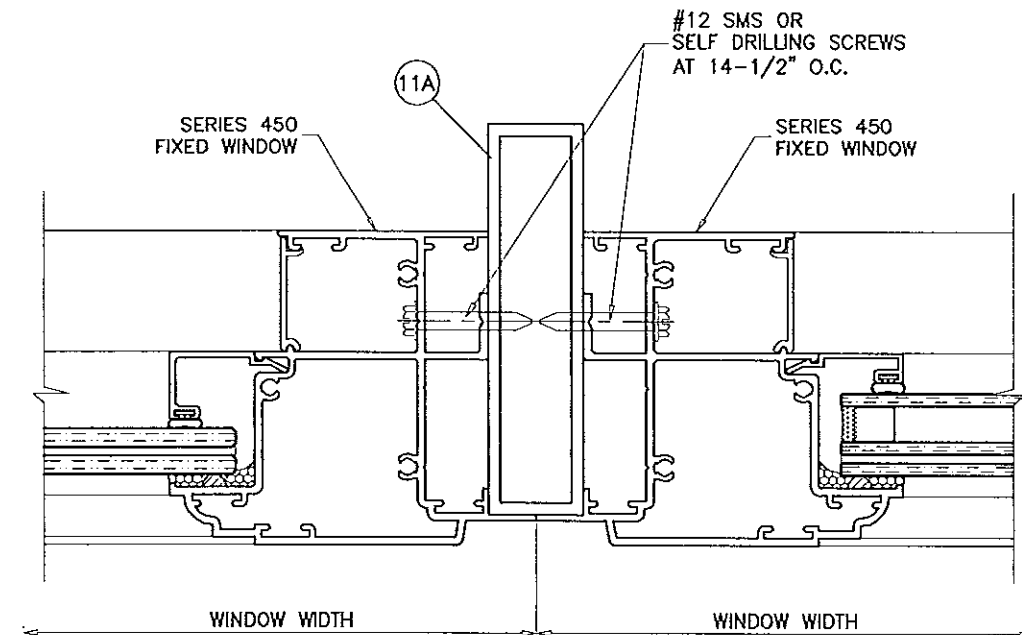


# MULLION TYPE '1'

## TOTAL PRPERTIES

$$I_x = 4.188 \text{ in}^4$$

$$S_x = 2.319 \text{ in}^3$$



# MULLION TYPE '2'

## TOTAL PRPERTIES

$$I_x = 5.275 \text{ in}^4$$

$$S_x = 2.811 \text{ in}^3$$

Engr. JAVAD AHMAD  
CML  
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COMP-ANL\W14-29W

SERIES-450 ALUMINUM FIXED WDW. (L.M.I.)  
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scale: 1/2" = 1"  
dr. by: HAMID  
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drawing no.

W14-29

sheet 6 of 6